QC ABSTRACT

NAME OF WORK: Construction of Convention Hall in front of Rangamandhira at Attur Layout in Ward No - 03

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	Precast (250mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	PCC(M15)	Compressive Strength(7days and 28days)	3 Set	-	6	6
9	RCC(M20)	Compressive Strength(7days and 28days)	5 set /31-100 cum	54.85	10	10
10	Mortar Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		Compacted Bulk Density	One Test		1	1
		Loose Bulk Density	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
11	M.S. Tubular Truss	Weight/Meter	One Test		1	1
		Yeild stress	One Test		1	1
		Tensile Strength	One Test		1	1
		Elongation Percentage	One Test		1	1
		Bend Test	One Test		1	1

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 13/08/2022

Lab ID	:	CP-2022-09-23-27
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Convention Hall in front of Rangamandhira at Attur Layout in Ward No - 03
Agency	:	Sri. R Ranganath, No.37. 19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmipuram, Bangalore-560010
Customer's Reference	:	BBMP/EE/YNK D/EPMT/W.O/23/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-08-22
Customer ID	:	Approach Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	13/08/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Approach Concrete	M15	06/08/2022	13/08/2022	149.63 X 149.50 X 150.53	22370	8.860	286.7	12.8	12.4
2	Approach Concrete	M15	06/08/2022	13/08/2022	151.18 X 151.84 X 149.98	22955	8.405	279.6	12.2	
3	Approach Concrete	M15	06/08/2022	13/08/2022	150.47 X 150.78 X 151.42	22687	8.282	277.1	12.2	

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.
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R.KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 03/09/2022

Lab ID	:	CP-2022-09-23-27
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Convention Hall in front of Rangamandhira at Attur Layout in Ward No - 03
Agency	:	Sri. R Ranganath, No.37. 19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmipuram, Bangalore-560010
Customer's Reference	:	BBMP/EE/YNK.D/EPMT/W.O/23/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-08-22
Customer ID	:	Approach Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS. 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	03/09/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Approach Concrete	M15	06/08/2022	03/09/2022	150.12 X 151.11 X 151.64	22685	8.203	392.8	17.3	17.5
2	Approach Concrete	M15	06/08/2022	03/09/2022	150.19 X 150.16 X 150.57	22552	8.617	385.6	17.1	
3	Approach Concrete	M15	06/08/2022	03/09/2022	151.30 X 150.30 X 151.38	22740	8.140	408.2	18.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 11/08/2022

Lab ID	:	CP-2022-09-23-27
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Convention Hall in front of Rangamandhira at Attur Layout in Ward No - 03
Agency	:	Sri. R Ranganath, No.37, 19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmipuram, Bangalore-560010
Customer's Reference	:	BBMP/EE/YNK.D/EPMT/W.O/23/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-08-22
Customer ID	:	Culvert Coping
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	11/08/2022

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Coping	M15	04/08/2022	11/08/2022	151.20 X 151.67 X 151.40	22931	8.596	288.6	12.6	12.3
2	Culvert Coping	M15	04/08/2022	11/08/2022	151.30 X 151.42 X 151.64	22910	8.709	279.0	12.2	
3	Culvert Coping	M15	04/08/2022	11/08/2022	151.98 X 149.96 X 149.92	22790	8.148	275.9	12.1	

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Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 01/09/2022

Lab ID	:	CP-2022-09-23-27
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Convention Hall in front of Rangamandhira at Attur Layout in Ward No - 03
Agency	:	Sri. R Ranganath, No.37. 19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmipuram, Bangalore-560010
Customer's Reference	:	BBMP/EE/YNK.D/EPMT/W.O/23/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-08-22
Customer ID	:	Culvert Coping
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	01/09/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Coping	M15	04/08/2022	01/09/2022	150.35 X 151.56 X 151.05	22787	8.654	409.7	18.0	17.7
2	Culvert Coping	M15	04/08/2022	01/09/2022	149.55 X 151.60 X 151.02	22671	8.913	403.6	17.8	
3	Culvert Coping	M15	04/08/2022	01/09/2022	150.87 X 150.55 X 150.58	22714	8.303	390.6	17.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2022-09-23-27** **Date: 12/08/2022**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Convention Hall in front of Rangamandhira at Attur Layout in Ward No - 03
Agency	:	Sri. R Ranganath, No.37. 19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmipuram, Bangalore-560010
Customer's Reference	:	BBMP/EE/YNK.D/EPMT/W.O/23/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-08-22
Customer ID	:	Culvert Bed
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	12/08/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bed	M15	05/08/2022	12/08/2022	151.28 X 150.42 X 150.60	22756	8.806	280.5	12.3	12.5
2	Culvert Bed	M15	05/08/2022	12/08/2022	149.21 X 149.52 X 149.02	22310	8.819	287.5	12.9	
3	Culvert Bed	M15	05/08/2022	12/08/2022	150.22 X 151.56 X 151.69	22767	8.872	277.6	12.2	

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TEST REPORT OF PRECAST COVER SLAB

Date: 15-07-22

Lab ID	:	CP-2022-09-23-27
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Convention Hall in front of Rangamandhira at Attur Layout in Ward No - 03
Agency	:	Sri. R Ranganath, No.37. 19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmipuram, Bangalore-560010
Customer's Reference	:	BBMP/EE/YNK.D/EPMT/W.O/23/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-07-22
Sample Type /Size	:	Precast Cover Slab (250 mm Thick)
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
Date of test	:	11/07/2022

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	200.62	250.25	2.369	31605	550.5	17.4	16.2	20.2
2	Cover Slab-2	200.45	250.43	2.589	31552	568.5	18.0	16.8	20.9
3	Cover Slab-3	200.85	250.62	2.485	31678	650.5	20.5	19.1	23.9

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-09-23-27** **Date: 08-07-22**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Convention Hall in front of Rangamandhira at Attur Layout in Ward No - 03
Agency	:	Sri. R Ranganath, No.37. 19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmipuram, Bangalore-560010
Customer's Reference	:	BBMP/EE/YNK.D/EPMT/W.O/23/2022-23
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	05-07-22
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	05-07-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	423	423	2.8	97.2	90-100
3	20 mm	5852	6275	41.8	58.2	30-70
4	10 mm	4232	10507	70.0	30.0	10-35
5	4.75 mm	4225	14732	98.2	1.8	0-5
6	Pan	268	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-09-23-27** **Date: 08-07-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.3	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.5	
3	Specific Gravity	2.68	–
4	Bulk Density(Loose) (Kg/l)	1.56	–
5	Bulk Density(Compacted) (Kg/l)	1.59	–
6	Water Absorption(%)	0.21	–

• The results obtained are satisfactory as per standard requirements.

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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-09-23-27** **Date: 07-07-22**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Convention Hall in front of Rangamandhira at Attur Layout in Ward No - 03
Agency	:	Sri. R Ranganath, No.37. 19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmipuram, Bangalore-560010
Customer Reference	:	BBMP/EE/YNK.D/EPMT/W.O/23/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-07-22
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	05-07-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : **5000** grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	255	255	5.1	94.9	90-100
3	10 mm	2789	3044	60.9	39.1	25-55
4	4.75 mm	1545	4589	91.8	8.2	0-10
5	Pan	411	5000	100	0	_

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
ಪ.ಪಂ.ಕಿ. ಬೆಂಗಳೂರು-೧೬

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-09-23-27** **Date: 07-07-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.4	
3	Specific Gravity	2.65	–
4	Bulk Density(Loose) (Kg/l)	1.53	–
5	Bulk Density(Compacted) (Kg/l)	1.55	–
6	Water Absorption(%)	0.22	–
7	Aggregate crushing Value(%)	24.1	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2022-09-23-27** **Date: 07-07-22**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Convention Hall in front of Rangamandhira at Attur Layout in Ward No - 03
Agency	:	Sri. R Ranganath, No.37. 19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmipuram, Bangalore-560010
Customer's Reference	:	BBMP/EE/YNK.D/EPMT/W.O/23/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-07-22
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	05-07-22
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	31	31	3.1	96.9	90-100	90-100	90-100	95-100
3	2.36 mm	192	223	22.3	77.7	60-95	75-100	85-100	95-100
4	1.18 mm	152	375	37.5	62.5	30-70	55-90	75-100	90-100
5	600 micron	255	630	63.0	37.0	15-34	35-59	60-79	80-100
6	300 micron	186	816	81.6	18.4	5-20	8-30	12-40	15-50
7	150 micron	89	905	90.5	9.5	0-10	0-10	0-10	0-15
8	Pan	95	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2022-09-23-27** **Date: 07-07-22**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Convention Hall in front of Rangamandhira at Attur Layout in Ward No - 03
Agency	:	Sri. R Ranganath, No.37. 19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmipuram, Bangalore-560010
Customer's Reference	:	BBMP/EE/YNK.D/EPMT/W.O/23/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-07-22
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS 1608-2005(RA 2011), IS 1599-2019.
Date of test	:	06-07-22

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory
4	Sunvik	Fe500	16	1.581	572	674	19.0%	Satisfactory	Satisfactory
5	Sunvik	Fe500	20	2.476	584	693	19.0%	Satisfactory	Satisfactory
6	Sunvik	Fe500	25	3.472	597	712	18.0%	Satisfactory	Satisfactory

* The results obtained are satisfactory as per standard requirements.

Note:

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	CP-2022-09-23-27 **Date: 15-07-22**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Convention Hall in front of Rangamandhira at Attur Layout in Ward No - 03
Agency	:	Sri. R Ranganath, No.37. 19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmipuram, Bangalore-560010
Customer's Reference	:	BBMP/EE/YNK.D/EPMT/W.O/23/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-07-22
Sample Type /Size	:	Precast Cover Slab (100 mm Thick)
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
Date of test	:	11/07/2022

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	105.5	23.6	21.9	27.4
2	Cover Slab-2	75.49	100.52	1.122	4475	100.5	22.5	20.9	26.1
3	Cover Slab-3	75.50	100.51	1.118	4476	110.5	24.7	23.0	28.7

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-09-23-27** **Date: 08-07-22**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Convention Hall in front of Rangamandhira at Attur Layout in Ward No - 03
Agency	:	Sri. R Ranganath, No.37 19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmipuram, Bangalore-560010
Customer's Reference	:	BBMP/EE/YNK.D/EPMT/W O/23/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-07-22
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11) 1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	06-07-22
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.14	-
2	Finess by Air permeablity method (m^2/kg,Min)	281.6	225m^2/kg, Min
3	Density (gm/cc)	3.14	-
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (i.e Chatelier's Method)	1.0mm	Not more than 10 mm

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 03-08-22

Lab ID	:	CP-2022-09-23-27
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Convention Hall in front of Rangamandhira at Attur Layout in Ward No - 03
Agency	:	Sri. R Ranganath, No.37. 19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmipuram, Bangalore-560010
Customer's Reference	:	BBMP/EE/YNK.D/EPMT/W.O/23/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-07-22
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	06-07-22
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2022-09-23-27** **Date: 26/08/2022**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Convention Hall in front of Rangamandhira at Attur Layout in Ward No - 03
Agency	:	Sri. R Ranganath, No.37. 19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmipuram, Bangalore-560010
Customer's Reference	:	BBMP/EE/YNK.D/EPMT/W.O/23/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-08-22
Customer ID	:	Column Concrete Sorround Rangamandira
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5
Date of test	:	26/08/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Column Concrete Sorround Rangamandira	M20	19/08/2022	26/08/2022	151.23 X 151.83 X 150.92	22961	8.240	433.8	18.9	18.7
2	Column Concrete Sorround Rangamandira	M20	19/08/2022	26/08/2022	150.13 X 150.60 X 150.83	22609	8.889	411.5	18.2	
3	Column Concrete Sorround Rangamandira	M20	19/08/2022	26/08/2022	149.77 X 151.12 X 149.75	22633	8.886	429.4	19.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 16/09/2022

Lab ID	:	CP-2022-09-23-27
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Convention Hall in front of Rangamandhira at Attur Layout in Ward No - 03
Agency	:	Sri. R Ranganath, No.37, 19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmipuram, Bangalore-560010
Customer's Reference	:	BBMP/EE/YNK.D/EPMT/W.O/23/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-08-22
Customer ID	:	Column Concrete Sorround Rangamandira
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	16/09/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Column Concrete Sorround Rangamandira	M20	19/08/2022	16/09/2022	151.09 X 151.81 X 149.66	22937	8.252	528.0	23.0	23.0
2	Column Concrete Sorround Rangamandira	M20	19/08/2022	16/09/2022	149.25 X 149.06 X 150.21	22246	8.470	495.8	22.3	
3	Column Concrete Sorround Rangamandira	M20	19/08/2022	16/09/2022	150.11 X 150.22 X 149.43	22549	8.300	536.6	23.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2022-09-23-27** **Date: 26/08/2022**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Convention Hall in front of Rangamandhira at Attur Layout in Ward No - 03
Agency	:	Sri. R Ranganath, No.37. 19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmipuram, Bangalore-560010
Customer's Reference	:	BBMP/EE/YNK.D/EPMT/W.O/23/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-08-22
Customer ID	:	Column Concrete Sorround Rangamandira
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	26/08/2022

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Column Concrete Sorround Rangamandira	M20	19/08/2022	26/08/2022	151.18 X 149.43 X 149.79	22591	8.234	415.9	18.4	18.7
2	Column Concrete Sorround Rangamandira	M20	19/08/2022	26/08/2022	151.02 X 151.96 X 150.37	22950	9.046	429.2	18.7	
3	Column Concrete Sorround Rangamandira	M20	19/08/2022	26/08/2022	151.01 X 151.43 X 151.50	22867	8.183	430.7	18.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2022-09-23-27 **Date: 02/09/2022**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Convention Hall in front of Rangamandhira at Attur Layout in Ward No - 03
Agency	:	Sri. R Ranganath, No.37. 19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmipuram, Bangalore-560010
Customer's Reference	:	BBMP/EE/YNK D/EPMT/W.O/23/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-08-22
Customer ID	:	RCC Drain Wall
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	02/09/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	RCC Drain Wall	M20	26/08/2022	02/09/2022	150.43 X 151.28 X 150.60	22758	8.431	428.9	18.8	18.3
2	RCC Drain Wall	M20	26/08/2022	02/09/2022	149.64 X 150.17 X 151.51	22471	8.951	407.0	18.1	
3	RCC Drain Wall	M20	26/08/2022	02/09/2022	149.33 X 151.96 X 150.17	22692	8.834	409.4	18.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 23/09/2022

Lab ID	:	CP-2022-09-23-27
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Convention Hall in front of Rangamandhira at Attur Layout in Ward No - 03
Agency	:	Sri. R Ranganath, No.37. 19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmipuram, Bangalore-560010
Customer's Reference	:	BBMP/EE/YNK.D/EPMT/W.O/23/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-08-22
Customer ID	:	RCC Drain Wall
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	23/09/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC Drain Wall	M20	26/08/2022	23/09/2022	150.60 X 149.66 X 149.30	22539	8.569	518.7	23.0	23.2
2	RCC Drain Wall	M20	26/08/2022	23/09/2022	149.16 X 149.16 X 149.12	22249	8.651	506.8	22.8	
3	RCC Drain Wall	M20	26/08/2022	23/09/2022	150.57 X 150.23 X 149.65	22620	8.775	541.4	23.9	

• The results obtained are satisfactory as per standard requirements.

Note:
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CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 02/09/2022

Lab ID	:	CP-2022-09-23-27
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Convention Hall in front of Rangamandhira at Attur Layout in Ward No - 03
Agency	:	Sri. R Ranganath, No.37. 19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmipuram, Bangalore-560010
Customer's Reference	:	BBMP/EE/YNK.D/EPMT/W.O/23/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-08-22
Customer ID	:	RCC Drain Wall
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS. 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	02/09/2022

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC Drain Wall	M20	26/08/2022	02/09/2022	149.11 X 149.35 X 149.29	22270	8.779	408.5	18.3	18.3
2	RCC Drain Wall	M20	26/08/2022	02/09/2022	151.55 X 149.42 X 151.09	22645	8.942	408.0	18.0	
3	RCC Drain Wall	M20	26/08/2022	02/09/2022	149.49 X 149.80 X 151.05	22394	8.189	416.4	18.6	

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R KARTHIK RECHAN
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Quality Manager

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TEST REPORT FOR SAND MASONRY MORTARS

Lab ID : **CP-2022-09-23-27** **Date: 14-07-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	3.18	–
2	Specific Gravity	2.51	–
3	Material finer than 75 micron(%)	12.2	Crushed Fine aggregate Max 15%
4	Compacted Bulk Density (Kg/litre)	1.90	–
5	Loose Bulk Density (Kg/litre)	1.73	–

• The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

TEST RESULTES FOR MS TUBULAR TRUSS

Date: 13-07-22

Lab ID	:	CP-2022-09-23-27
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Convention Hall in front of Rangamandhira at Attur Layout in Ward No - 03
Agency	:	Sri. R Ranganath, No.37. 19th Cross, 1st 'N' Block, Rajajinagara, Mahalakshmipuram, Bangalore-560010
Customer's Reference	:	BBMP/EE/YNK.D/EPMT/W.O/23/2022-23
Sourse of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-07-22
Type of Sample	:	M.S Tubular Truss (50X50X6)mm
Reference to BIS codes	:	IS:1608-2005(RA 2017), IS 1599-2019.
Date of test	:	11-07-22

TESTS RESULTS FOR M.S TUBULAR TRUSS MADE OUT OF 2 EQUAL ANGLES OF 50 X 50 X 6 MM WELDED TOGETHER

SL.NO	Description	Result	Required as per IS Code 2062:2011	Remarks
1	Weight/Meter (Kg /m)	4.53	4.5 Kg/m	Satisfactory
2	Yeild stress (N/mm2)	278	250N/mm^2	Satisfactory
3	Tensile Strength (N/mm2)	485	410N/mm^2	Satisfactory
4	Elongation Percentage (%)	23.5	Min23%	Satisfactory
5	Bend Test	Satisfactory	Should not Crack or fracture	Satisfactory

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Quality Manager

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